

ABSTRACT OF THE DISCLOSURE

5 Histidine Proline Rich Glycoprotein (HPRG) polypeptides or fragments thereof including pentapeptide fragments and multimers thereof, and other biologically active derivatives of HPRG are anti-angiogenic. These compounds may be used to inhibit angiogenesis or treat a disease or condition in which angiogenesis is pathogenic. These compounds therefore have anti-tumor activity and are used in methods for inhibiting the growth of primary tumors or metastases. Antibodies specific for epitopes of the His-Pro rich domain of HPRG are stimulators of angiogenesis and are useful for promoting neovascularization in pertinent disease states.